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Jul 15, 1997

US-PAT-NO: 5649113

DOCUMENT-IDENTIFIER: US 5649113 A

TITLE: Method and system for translating an optimization problem for use in efficient resource allocation

DATE-ISSUED: July 15, 1997

## INVENTOR-INFORMATION:

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APPL-NO: 8/ 321950

DATE FILED: October 12, 1994

INT-CL: [6] G06F 17/60

US-CL-ISSUED: 395/207; 364/468.05, 364/468.09, 395/208

US-CL-CURRENT: 705/7; 700/103, 700/99, 705/8

FIELD-OF-SEARCH: 364/402, 364/41R, 364/468, 364/468.05, 364/468.09, 395/207, 395/208

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4121297</u>	October 1978	Smith	N/A
<input type="checkbox"/>	<u>4744028</u>	May 1988	Karmarkar	364/402
<input type="checkbox"/>	<u>4924386</u>	May 1990	Freedman et al.	N/A
<input type="checkbox"/>	<u>5001664</u>	March 1991	Makita et al.	N/A
<input type="checkbox"/>	<u>5128860</u>	July 1992	Chapman	N/A
<input type="checkbox"/>	<u>5148365</u>	September 1992	Dembo	N/A
<input type="checkbox"/>	<u>5216593</u>	June 1993	Dietrich et al.	364/402
<input type="checkbox"/>	<u>5291397</u>	March 1994	Powell	364/402
<input type="checkbox"/>	<u>5321605</u>	June 1994	Chapman et al.	364/402
<input type="checkbox"/>	<u>5343388</u>	August 1994	Wedelin	364/402
<input type="checkbox"/>	<u>5408663</u>	April 1995	Miller	395/650

ART-UNIT: 241

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ABSTRACT:

An improved method and system for translating an optimization problem for use in efficient resource allocation. The improved method of the present invention includes the step of generating an index link record for each of the index variables in the optimization problem so as to eliminate the need for a symbol table and a plurality of temporary data records. The method also includes the step of linking the index link records of the index variables requiring expansion in a reverse order of the order listed in the optimization problem so as to reduce the number of traversals performed during expansion processing. The index link records have a pointer for identifying the next index variable requiring expansion.

6 Claims, 8 Drawing figures